

**IN THE UNITED STATES PATENT AND  
TRADEMARK OFFICE  
BEFORE THE EXAMINING CORPS**

**IN RE APPLICATION OF**

**DONALD LUTRARIO**

**FOR A**

**METHOD FOR MAKING A PIECE  
OF SIMULATED STAINED-GLASS**

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## **BACKGROUND OF THE INVENTION**

### **2 Field of the Invention:**

3           The present invention relates to a method. More particularly, the present invention  
4   relates to a method for making a piece of simulated stained-glass.

### **5 Description of the Prior Art:**

6           Numerous innovations for simulated stained-glass have been provided in the prior art  
7   that will be described. Even though these innovations may be suitable for the specific  
8   individual purposes to which they address, however, they differ from the present invention.

9           **FOR EXAMPLE**, United States Patent Number 3,382,134 to Powell teaches a  
10   simulated Venetian glass product. A sheet transparent material is embossed onto a lead-  
11   simulating frame , with the sheet extending forwardly into the opening from the rear of the  
12   frame. Coloring material is deposited on the rear face of the sheet at each of the glass  
13   simulated areas. A highly authentic Venetian glass product is achieved by fabricating the  
14   transparent sheet with an irregular surface, and by attaching a translucent paper backing sheet  
15   to the assembly.

1           **ANOTHER EXAMPLE**, United States Patent Number 3,619,456 to Taylor, Jr.  
2     teaches an assembly made from plastic which appears to be of stained glass set in lead, and  
3     the assembly can be made in any design that can be made by stained glass set in lead. The  
4     primary method for making the assembly is to arrange horizontally grooved plastic cames on  
5     a horizontal surface in the framework of the design desired, then to fill the design with a filler  
6     material to the bottom of the grooves, then to place variously colored liquid plastics in the  
7     design to fill it to the top of the grooves, next to cure the plastic, and finally to remove the  
8     filler material. In one variation of the method, no filler material is used and the liquid plastic  
9     fills the design from the bottom of the cames to the top of the grooves. When this variation is  
10    used, the resulting assembly appears to be stained glass set in lead only when viewed from one  
11    side.

12           **STILL ANOTHER EXAMPLE**, United States Patent Number 4,016,235 to Ferro  
13     teaches a method of making simulated stained glass from moldable plastic material. One wall  
14    of a die is formed with a series of interconnected recesses which border isolated areas, and the  
15    isolated areas of the die are provided with random surface indentations. A sheet of plastic film  
16    having a series of dark colored interconnected strips, corresponding in configuration to the  
17    recesses in the die, and having a series of light colored zones of the same configuration as the  
18    isolated areas of the die, is disposed on the die surface with the dark colored strips in precise  
19    registry with the recesses of the die and the light colored zones in registry with the isolated  
20    areas of the die. The plastic film is held against the die surface by a vacuum, and a liquid

1 thermoplastic resin is injected into the die cavity. The plastic film deforms under the heat and  
2 pressure to depress the dark colored strips of the film into the die recesses and the  
3 thermoplastic resin fuses to the plastic film to provide a simulated stained glass having raised  
4 dark colored strips corresponding to the leaded strips of stained glass, and having light colored  
5 areas corresponding to the panes of glass.

6           **YET ANOTHER EXAMPLE**, United States Patent Number 4,312,688 to Brodis *et*  
7 *al.* teaches a method and apparatus for making simulated stained-glass uses an existing  
8 surface. An outline of a given design is traced or drawn on the surface to be decorated.  
9 Pressure-sensitive lead stripping is applied to the surface in registration with the outline  
10 thereby delineating lead-striped areas. The edges of the lead stripping are bonded, sealing  
11 same to the surface. Colored, plastic, thin-film stock is cut so as to be complementary in size  
12 to a given lead-delineated area, and then applied thereto. The lead stripping resembles a frame  
13 that appears to hold the thin-film stock, and it, in conjunction with the translucence of the thin-  
14 film, produces an effect that closely resembles real stained-glass.

15           **STILL YET ANOTHER EXAMPLE**, United States Patent Number 4,335,170 to  
16 Butler teaches a method of simulating stained and leaded glass windows including bonding  
17 lead strips to a pane of glass or plastic to form design segments, and bonding coatings to the  
18 pane coincidental with the design segments to simulate colored glass and the simulated stained  
19 and leaded glass structure produced by the method.

1           **YET STILL ANOTHER EXAMPLE**, United States Patent Number 4,438,165 to  
2     Butler that teaches simulated stained and leaded glass windows which include bonded lead  
3     strips onto a pane of glass or plastic, forming design segments, and bonded coatings to the  
4     pane coincidental with the design segments simulating colored glass, and to a method for their  
5     preparation.

6           **STILL YET ANOTHER EXAMPLE**, United States Patent Number 6,117,504 to  
7     Yoshikawa teaches a stained glass article of a three dimensional shape and a method for  
8     producing the same. A glass plate is cut into glass pieces of a certain shape including a  
9     pentagon member and a hexagon member. The hexagon member consists of one six-sided  
10    irregular member and three four-sided irregular members. The glass pieces of the certain  
11    shape are united together via a bonding agent to obtain the three dimensional stained glass  
12    imitating the shape of a soccer ball. The glass piece has a curved surface whose radius of  
13    curvature is set substantially equal to the radius of the soccer ball.

14           It is apparent that numerous innovations for simulated stained-glass have been  
15    provided in the prior art that are adapted to be used. Furthermore, even though these  
16    innovations may be suitable for the specific individual purposes to which they address,  
17    however, they would not be suitable for the purposes of the present invention as heretofore  
18    described.

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## SUMMARY OF THE INVENTION

2           **ACCORDINGLY**, it is an object of the present invention to provide a method for  
3       making a piece of simulated stained-glass that avoids the disadvantages of the prior art.

4           **BRIEFLY STATED**, it is an object of the present invention to provide a method for  
5       making a piece of simulated stained-glass that includes the steps of providing a vacuum mold  
6       die having a working surface, forming a series of completely flat and smooth, raised and  
7       elongated areas on the working surface of the vacuum mold die, laying a sheet of acrylic or  
8       plastic over the working surface of the vacuum mold die, vacuum forming the sheet of acrylic  
9       or plastic so as to form a sheet of vacuum formed acrylic or plastic having recessed flats on  
10      a mold-facing surface thereof and raised flats on an ambient-facing surface thereof that oppose  
11      the recessed flats, by virtue of the series of completely flat and smooth, raised and elongated  
12      areas on the working surface of the vacuum mold die, glueing pressure sensitive self-stick lead  
13      strips to the recessed flats on the mold-facing surface of the sheet of vacuum formed acrylic  
14      or plastic and the raised flats on the ambient-facing surface of the sheet of vacuum formed  
15      acrylic or plastic, and forming the piece of simulated stained-glass.

16       The novel features which are considered characteristic of the present invention are set  
17      forth in the appended claims. The invention itself, however, both as to its construction and its  
18      method of operation, together with additional objects and advantages thereof, will be best

- 1 understood from the following description of the specific embodiments when read and
- 2 understood in connection with the accompanying drawing.

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## **BRIEF DESCRIPTION OF THE DRAWING**

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2 The figures of the drawing are briefly described as follows:

3 **FIGURES 1A-1D** are a process flow chart for the method of making a piece of simulated  
4 stained-glass of the present invention.

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## LIST OF REFERENCE NUMERALS

2

## UTILIZED IN THE DRAWING

- 3   **10**   method of present invention for making piece of simulated stained-glass **12**
- 4   **12**   piece of simulated stained-glass
- 5   **14**   vacuum mold die
- 6   **16**   working surface of vacuum mold die **14**
- 7   **18**   texture of piece of stained glass **20**
- 8   **20**   piece of stained glass
- 9   **22**   water glass
- 10   **24**   granite glass
- 11   **26**   beveled diamonds
- 12   **28**   series of raised and elongated areas on working surface **16** of vacuum mold die **14**
- 13   **30**   series of completely flat and smooth, raised and elongated areas on working surface  
14              **16** of vacuum mold die **14**
- 15   **32**   acrylic jewels
- 16   **34**   glass
- 17   **36**   any other type item
- 18   **38**   sheet of acrylic or plastic
- 19   **40**   sheet of vacuum formed acrylic or plastic

- 1      **42**     recessed flats on mold-facing surface **44** of sheet of vacuum formed acrylic or plastic  
2      **40**
- 3      **44**     mold-facing surface of sheet of vacuum formed acrylic or plastic **40**
- 4      **46**     raised flats on ambient-facing surface **48** of sheet of vacuum formed acrylic or plastic  
5      **40**
- 6      **48**     ambient-facing surface of sheet of vacuum formed acrylic or plastic **40**
- 7      **50**     pressure sensitive self-stick lead strips

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1                   DETAILED DESCRIPTION OF  
2                   THE PREFERRED EMBODIMENT

3                 Referring now to **FIGURES 1A-1D**, which are a flow chart of the method for making  
4         a piece of simulated stained-glass of the present invention, the method of the present invention  
5         is shown generally at **10** for making a piece of simulated stained-glass **12**.

6                 The method **10** comprises the steps of:

7         **STEP 1:**     Provide a vacuum mold die **14** having a working surface **16** simulating a  
8                 texture **18** of a piece of stained glass **20**, wherein the texture **18** of the piece of  
9                 stained glass **20** is at least one of water glass **22**, granite glass **24**, and beveled  
10                 diamonds **26**.

11         **STEP 2:**     Form a series of raised and elongated areas **28** on the working surface **16** of the  
12                 vacuum mold die **14** that are completely flat and smooth so as to form a series  
13                 of completely flat and smooth, raised and elongated areas on the working  
14                 surface **16** of the vacuum mold die **14**.

15         **STEP 3:**     Lay at least one of acrylic jewels **32**, glass **34**, and any other type item **36** on  
16                 the working surface **16** of the vacuum mold die **14**.

- 1      **STEP 4:**    Lay a sheet of acrylic or plastic **38** over the working surface **16** of the vacuum mold die **14**.
  - 2
  - 3      **STEP 5:**    Vacuum form the sheet of acrylic or plastic **38**, with the at least one of the acrylic jewels **32**, the glass **34**, and the any other type item **34** being attached to, by being sucked into, the sheet of acrylic or plastic **38** for added effects, so as to form a sheet of vacuum formed acrylic or plastic **40** having recessed flats **42** on a mold-facing surface **44** thereof and raised flats **46** on an ambient-facing surface **48** thereof that oppose the recessed flats **42**, by virtue of the series of completely flat and smooth, raised and elongated areas on the working surface **16** of the vacuum mold die **14**.
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  - 11     **STEP 6:**    Glue pressure sensitive self-stick lead strips **50** to the recessed flats **42** on the mold-facing surface **44** of the sheet of vacuum formed acrylic or plastic **38** and the raised flats **46** on the ambient-facing surface **48** of the sheet of vacuum formed acrylic or plastic **38**.
  - 12
  - 13
  - 14
  - 15     **STEP 7:**    Form the piece of simulated stained-glass **10**.
  - 16
  - 17
  - 18
- It will be understood that each of the elements described above, or two or more together, may also find a useful application in other types of constructions differing from the types described above.

1        While the invention has been illustrated and described as embodied in a method for  
2        making a piece of simulated stained-glass, it is not limited to the details shown, since it will  
3        be understood that various omissions, modifications, substitutions and changes in the forms  
4        and details of the device illustrated and its operation can be made by those skilled in the art  
5        without departing in any way from the spirit of the present invention.

6        Without further analysis, the foregoing will so fully reveal the gist of the present  
7        invention that others can, by applying current knowledge, readily adapt it for various  
8        applications without omitting features that, from the standpoint of prior art, fairly constitute  
9        characteristics of the generic or specific aspects of this invention.

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